

## Gravatt, Dan

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**From:** Asher, Audrey  
**Sent:** Wednesday, February 06, 2013 8:37 AM  
**To:** Golik, Joletta T.  
**Cc:** Gravatt, Dan  
**Subject:** Re: Republic Services Landfill/ West Lake landfill

Joletta,

MDNR, not EPA, is the government agency authorized to regulate the sanitary landfill that your questions address. At the January 17, 2013 meeting, EPA incorporated in its powerpoint a map created by MDNR that shows the landfill. I am attaching that map. I am also attaching the powerpoint. However, your questions need to be directed to MDNR. If you have questions regarding the other portions of the West Lake site, please contact me.



MDNR\_Map.pptx



West Lake Jan2013  
Public Meeti...

## Audrey B. Asher

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United States Environmental Protection Agency – Region VII  
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**From:** "Golik, Joletta T." <[jtgolik@flystl.com](mailto:jtgolik@flystl.com)>  
**To:** Audrey Asher/R7/USEPA/US@EPA  
**Date:** 02/05/2013 03:59 PM  
**Subject:** Republic Services Landfill/ West Lake landfill

I would like to ask you if you could email me a map of where exactly the odor mitigation construction work such as wells, mainforce lines, membrane locations and others controls are being implemented and developed on the landfill area. During the last EPA's public meeting there was an exhibit showing where the fires/odor problems are located or originating from and location of the Unit with radioactive impact; could you email me a copy of this map?

Could you email me a copy of your presentation as per this public meeting?

Based on the Order issued by MDNR as of February 1, 2013 the Landfill needs to develop plans to remedy violations and nuisances; we need information about locations and types of the remedies.  
I appreciate your assistance. Thank you so much.

**Joletta Golik, MS**  
**Environmental/ Health & Safety Manager**  
Environmental /Health & Safety Department

**Lambert-St. Louis International Airport®**  
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Superfund



\*\*\*\*\* ATTACHMENT NOT DELIVERED \*\*\*\*\*

This Email message contained an attachment named

image001.jpg

which may be a computer program. This attached computer program could contain a computer virus which could cause harm to EPA's computers, network, and data. The attachment has been deleted.

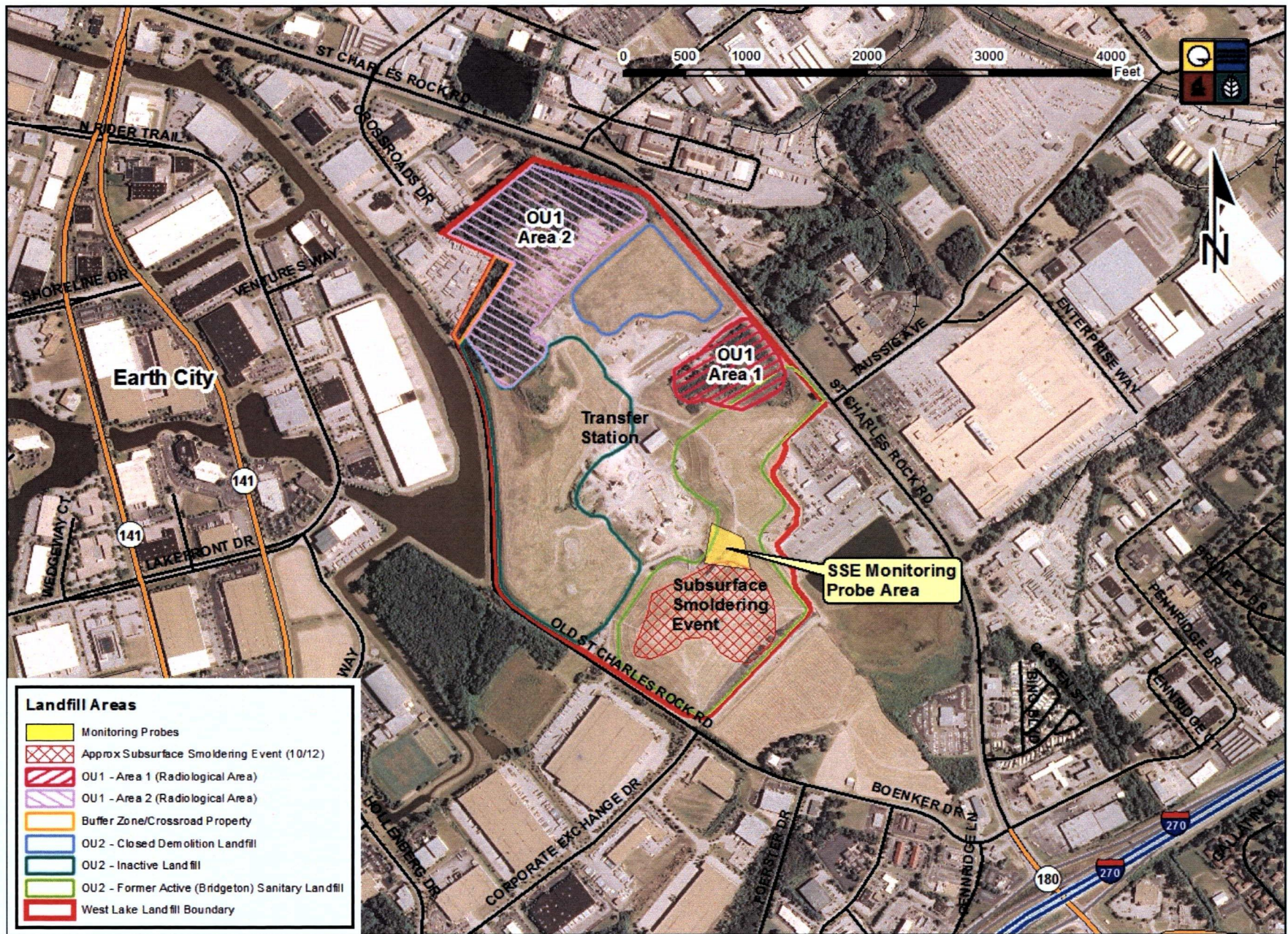
This was done to limit the distribution of computer viruses introduced into the EPA network. EPA is deleting all computer program attachments sent from the Internet into the agency via Email.

If the message sender is known and the attachment was legitimate, you should contact the sender and request that they rename the file name extension and resend the Email with the renamed attachment. After receiving the revised Email, containing the renamed attachment, you can rename the file extension to its correct name.

For further information, please contact the EPA Call Center at  
(866) 411-4EPA (4372). The TDD number is (866) 489-4900.

\*\*\*\*\* ATTACHMENT NOT DELIVERED \*\*\*\*\*







# **West Lake Landfill Operable Unit 1 Status Update**



**U.S. Environmental Protection Agency  
Region 7**

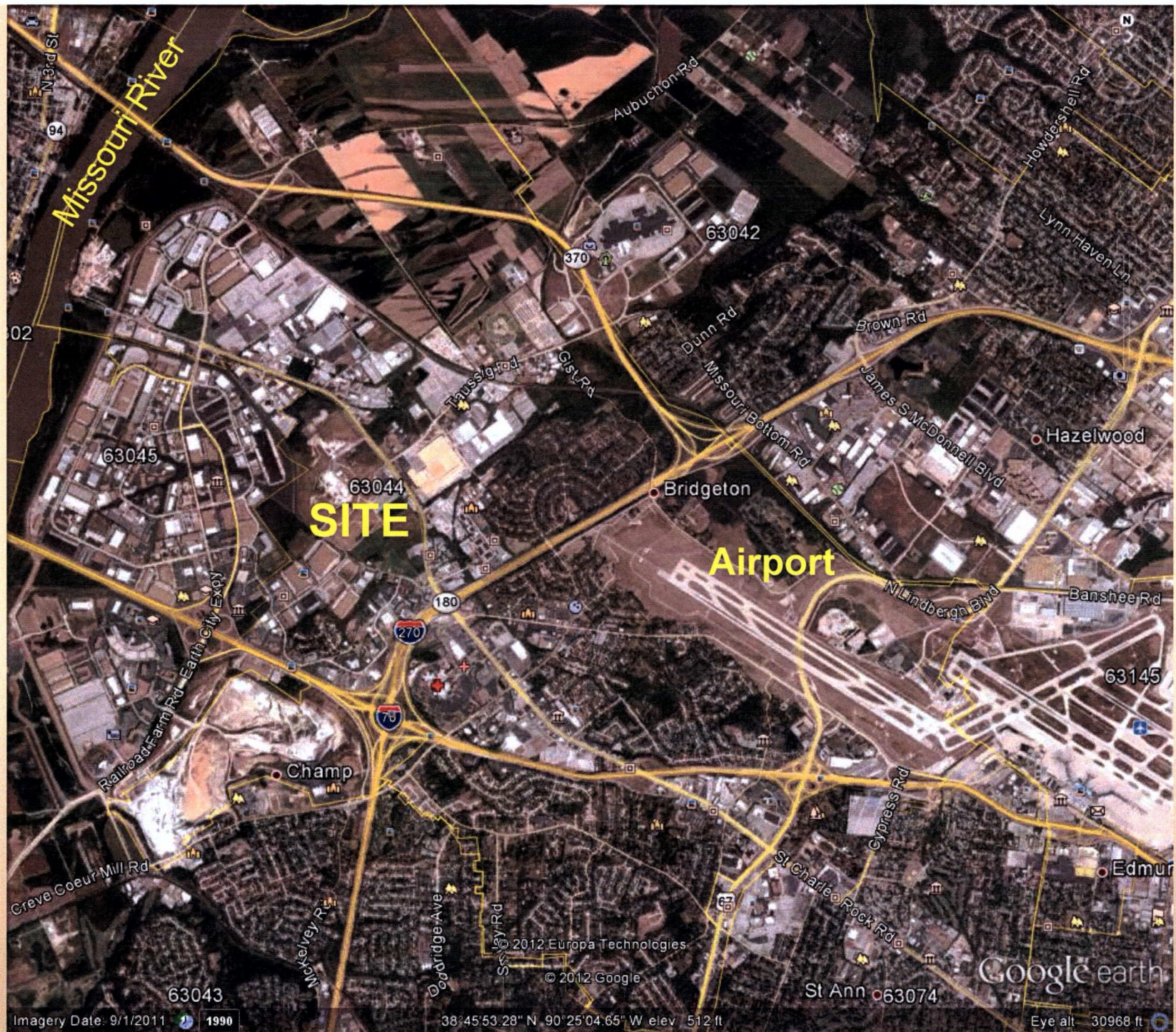
**January 2013**



# Agenda

- History of site decisions
- Recent groundwater results
- Recent radiation screening results
- Next steps
- Q & A





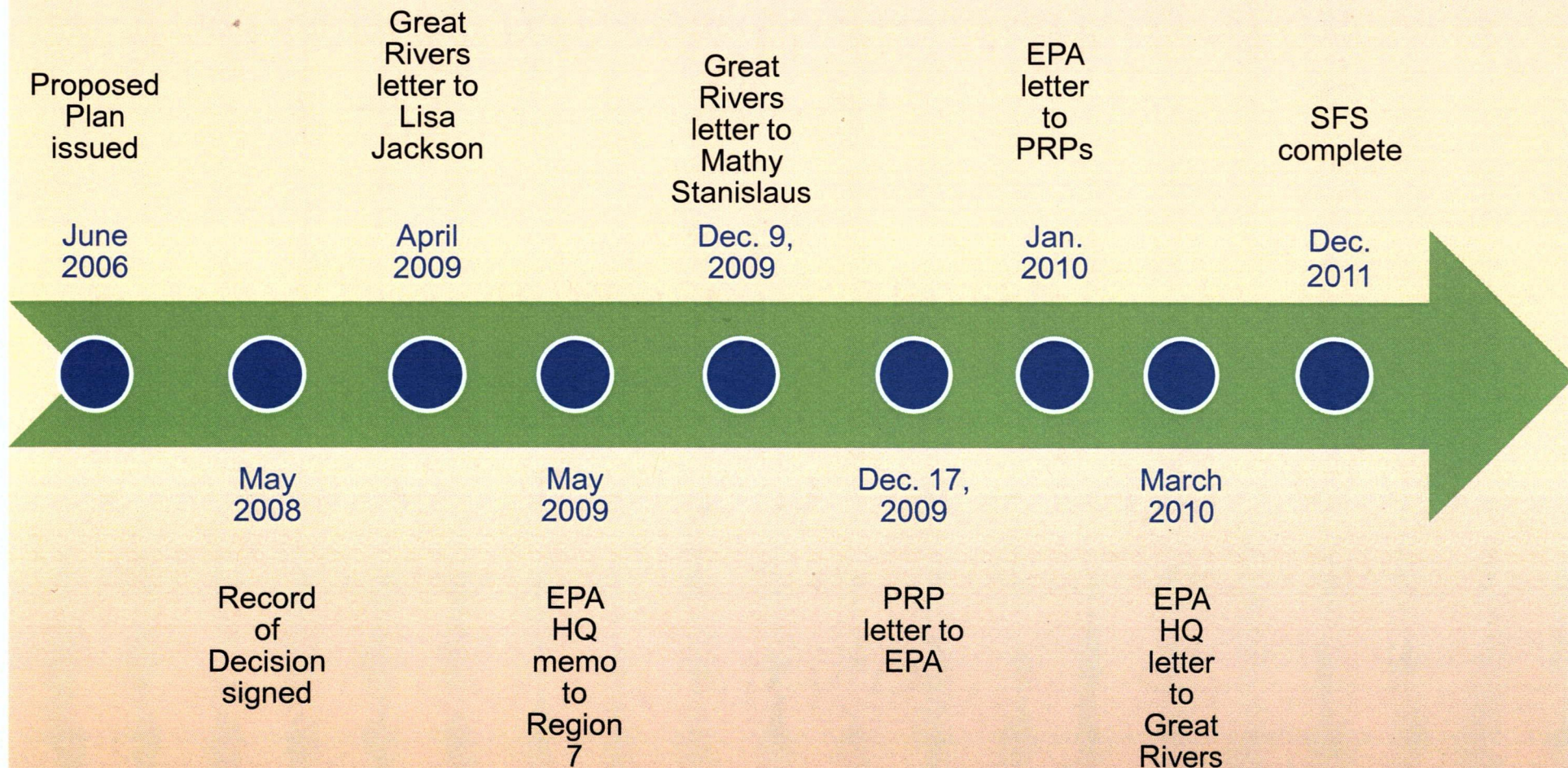


# Site Boundaries





# Timeline





# National Remedy Review Board (NRRRB)

- EPA Region 7 held early consultation on the Supplemental Feasibility Study (SFS) with the NRRRB in February-March 2012.
- NRRRB recommended additional technical evaluations.
- The PRPs agreed to do the additional evaluations requested by the NRRRB. Work began in July 2012 and is ongoing.



# 2012 Groundwater Sampling

- 75 monitoring wells sampled across the site
- Radium detected in 25 wells at levels above its maximum contaminant level (MCL)
- Uranium did not exceed its MCL in any wells
- Dissolved thorium less than 2.1 pCi/L in all wells; there is no MCL for thorium
- Recent USGS studies suggest that radium may be naturally elevated in the area groundwater



# EPA radiation screening results

- EPA screened 68 monitoring wells in October
- Four wells inside OU-1 cells did show elevated gamma levels indicating radiologically-impacted material (RIM)
- Background gamma emissions from shale layers in bedrock observed at low levels



Depth, Ft	PZ-113-SS Counts Per Minute	S-5 CPM	I-4 CPM	D-3 CPM	S-10 CPM	I-11 CPM	D-12 CPM	PZ-103-SS CPM
0	470	600	670	830	670	820	520	840
	400	620	620	670	610	810	520	580
	800	1150	520	540	610	560	580	510
	680	1150	430	670	520	530	630	640
	770	3490	780	2580	1050	1100	770	480
5	750	9070	1150	4950	1040	2870	1990	770
	580	14100	2810	3710	590	5620	2360	1070
	520	71890	4120	3450	580	4380	2300	900
	590	36180	6000	4970	420	600	330	1090
	730	7150	34750	11120	1120	1510	340	1920
10	810	2090	33630	15460	600	1100	390	1910
	570	2110	6600	27820	1110	1020	350	1950
	640	1100	2900	16630	1120	1070	130	1200
	760	980	1100	2200	600	1120	640	1670
	760	1020	1150	1100	1050	1100	340	1670
15	780	790	350	1150	1050	1100	380	1880
	820	950	1050	1000	950	790	950	1920
	710	1010	1050	640	100	600	600	1910
	700	810	820	1070	1050	600	180	1770
	770	820	740	820	140	1040	170	1850
20	530	850	300	730	100	1130	100	1430
	320	940	310	660	100	1140	100	1290
	730	1010	1010	560	1910	1100	150	1280
	570	1400	270	790	1950	1020	420	1240
	650	1050	1040	1050	2090	1030	1930	1400
25	830	1100	1100	1050	2060	1030	590	1400
	780	1550	300	760	810	1010	340	1050
	780	1340	800	680	1070	2170	510	1400
	500	1050	900	1050	500	2070	500	1080
	790	820	820	1410	1030	2100	530	1380
30	660	1070	670	1030	1030	2180	450	1370
	680	460	950	1040	1070	1770	420	1100
	680	820	350	1040	1090	1000	420	800
	530	590	1070	1080	1080	1090	530	730
	510	550	1070	1020	1100	1090	530	1070
35	600	710	820	1040	1120	1090	580	1170
	450	1050	740	1050	1090	1080	580	1110
	480	680	1150	1110	1120	1040	590	1070
	620	480	1450	1140	1050	1040	2040	1500
	520	580	1110	910	1100	1600	970	1500
40	440	740	950	680	1170	1040	580	1870
	520	600	350	1030	1010	1050	580	2010
	650	630	1050	1150	1010	1050	580	1070
	480	490	1080	1000	1040	1050	580	1090
45	580	620	300	1070	1000	1080	590	1070
	420	850	950	1000	1040	1070	540	1040
	500	1110	950	1000	570	1050	540	1280
	590	1060	1060	550	740	1400	550	1090
	380	800	1040	1040	1080	1400	720	1000
	530	1060	950	950	1090	1020	550	1080
50	550	840	840	520	1020	1080	370	1040
	390	310	900	500	1090	1180	430	1100
	530	1040	1040	820	650	1010	500	1100
	580	1100	1100	850	560	1440	1150	1050
	630	310	310	900	510	1100	630	1180
55	440	350	1000	1000	700	600	530	1100
	560	1050	1050	1020	720	930	880	1070
	580	1150	340	1150	690	630	120	670
	540	950	950	1030	750	1020	190	480



# EPA surface radiation screening

- Surface gamma scans are planned for 2013
- Aerial survey method may be used due to very heavy vegetation cover
- Results may help confirm extent of RIM



# Next Steps

- PRPs are conducting additional evaluations.
- SFS will be amended to include additional evaluations.
- EPA Region 7 will formally present amended SFS to the NRRB.
- New proposed plan for ROD amendment will be released for public comment.



# Community Assistance

- Community advisory group
- Technical assistance grants
- Technical Assistance for Superfund Communities (TASC)



## Contacts

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